

CLAIMS

1. A method of manufacturing a plasma display device having a panel in which a pair of substrates having transparency at least on a front side, the
5 substrates being oppositely disposed so that discharge space and discharge cells are formed between the substrates, and a metallic holding plate that supports the panel via a thermal conductive material, the method comprising:

forming the thermal conductive material from a pull-to-remove type adhesive;

10 applying the adhesive to one of the panel and the holding plate;
bonding the panel to the holding plate together; and
curing the adhesive by application of pressure and heat.

2. The method of manufacturing the plasma display device of Claim 1,
15 wherein the adhesive is applied to one of the panel and the holding plate, the panel and the holding plate are bonded together, and then the adhesive is cured by simultaneous application of pressure and heat.

3. The method of manufacturing the plasma display device of Claim 1 or
20 Claim 2, wherein when the adhesive is applied to one of the panel and the holding plate, one of the panel and the holding plate at which the adhesive is not applied is heated.

4. The method of manufacturing plasma display device of Claim 1,
25 wherein the adhesive is cured within 5 minutes.

5. The method of manufacturing plasma display device of Claim 1,

wherein a groove in which a portion of the adhesive flows is formed at a periphery of the holding plate.

6. The method of manufacturing the plasma display device of Claim 1,
5 wherein the thermal conductive material is formed of a plurality of strips of pull-to-remove type adhesive, and each strip of the adhesive is so shaped that a remove-start point is broader in width than a remove-end point.

7. The method of manufacturing the plasma display device of Claim 6,
10 wherein the width of each adhesive strip measured at the remove-start point becomes gradually smaller toward the remove-end point.

8. The method of manufacturing the plasma display device of Claim 6 or Claim 7, wherein each adhesive strip is arranged so that the remove-start point
15 and the remove-end point are alternately disposed with respect to opposing sides of the holding plate.

9. The method of manufacturing the plasma display device of Claim 1, wherein the thermal conductive material is formed of a plurality of
20 pull-to-remove adhesive strips, and a spacer, which properly maintains a gap between the panel and the holding plate, is disposed between the adhesive strips.

10. The method of manufacturing the plasma display device of Claim 9,
25 wherein the spacer is separately located pull-to-remove adhesive in which a bead is embedded.

11. The method of manufacturing the plasma display device of Claim 10, wherein the spacer is a temporary fixing member in proper positioning of the panel and the holding plate.

5 12. The method of manufacturing the plasma display device of Claim 1, wherein a non-adhesive, thermal conductive sheet is disposed in a mid-area between the panel and the holding plate, while the pull-to-remove adhesive for bonding the panel and the holding plate is disposed at a periphery between the panel and the holding plate.

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13. The method of manufacturing the plasma display device of Claim 1, wherein a driving circuit block containing a semiconductor device for feeding a display signal to the panel is mounted on a cooling plate on a back side of the holding plate, a portion of the thermal conductive material is exposed from the
15 holding plate, and the driving circuit block-mounted cooling plate is bonded with the exposed portion of the thermal conductive material.

14. The method of manufacturing the plasma display device of Claim 1, wherein a driving circuit block containing a semiconductor device for feeding a
20 display signal to the panel is mounted on a cooling plate on a back side of the holding plate, a portion of the thermal conductive material is extended to the driving circuit block-mounted cooling plate.